

Reinforced concrete composition with metal strips, method and building elements made thereof

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Abstract of EP0887486

An amorphous metal fibre-reinforced concrete composition contains, as the metal fibres, 4-40 wt.-% strips of an alloy based on iron, phosphorus, carbon, silicon and chromium, especially (Fe, Cr)80(P, C, Si)20. Preferably, the concrete composition comprises (by wt.) 5-15% ultra-fine material (preferably fumed silica), 30-60% cement (preferably Portland cement), 0.5-3% dispersing agent (preferably polymelamine-based), 4-40% metal strips, 6-12% water and balance aggregate (preferably silica sand). Also claimed are (i) a process for preparing the above concrete composition; and (ii) a concrete element obtained by hardening the above composition.

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